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Set	Items	Description
S1	2188882	IMAGE??
S2	119590	S1(3N)(SEGMENT? OR PARTS OR PARTITION? OR PORTION? OR PART OR SECTOR? OR SECTION? OR REGION? OR PIECE? OR FRAGMENT?)
S3	5002	GRAPHIC? AND SYNTHETIC?
S4	29990	(PICTURE? OR PHOTO OR PHOTOGRAPH??) AND NATURAL
S5	7160290	CLASSES OR CLASSIFICAT? OR GROUP??? OR CLASSIFY? OR CLASS
S6	459929	FUZZY()LOGIC? OR NEURAL()NETWORK? OR RULE(3N)BASED
S7	3019622	TEXTURE? OR COLOR? OR COLOUR? OR EDGE? OR VARIANCE OR BIAS OR SKEW? OR FITNESS OR EDGE? OR LUMINANCE
S8	4912	EDGE? AND HORIZONT? AND VERTICAL?
S9	391	SGLD OR SPATIAL() (GREY OR GRAY) () LEVEL() DEPENDENC?
S10	20758	(GREY OR GRAY) () LEVEL?
S11	2117571	HISTOGRAM? OR ALGORITHM?
S12	41389	AU=(PRABHAKAR, S? OR CHENG, H? OR FAN, Z? OR HANDLEY, J? - OR LIN, Y? OR PRABHAKAR S? OR CHENG H? OR FAN Z? OR HANDLEY - J? OR LIN Y?)
S13	12	(IDENTIF? OR DETERMIN? OR DETECT?) AND S3 AND S4
S14	7	S13 AND S5
S15	5	RD S14 (unique items)
S16	1	S12 AND S3 AND S4
S17	0	S16 NOT S15
S18	3803	S2 AND S5 AND S6
S19	1621	S18 AND S7
S20	9	S19 AND S8
S21	9	S20 NOT (S16 OR S15)
S22	5	S21 NOT PY=>2002

S23 2 RD S22 (unique items)
S24 48 S19 AND S9
S25 39 S24 AND S11
S26 39 S25 NOT (S20 OR S16 OR S15)
S27 28 S26 NOT PY=>2002
S28 24 RD S27 (unique items)
S29 1 S28 AND (SYNTHETIC OR NATURAL)
S30 85 S3 AND S4
S31 37 S30 AND (S7 OR S8 OR S9 OR S10)
S32 15 S31 AND S5
S33 11 S32 NOT (S25 OR S20 OR S16 OR S15)
S34 10 S33 NOT PY=>2002
S35 7 RD S34 (unique items)

File 348:EUROPEAN PATENTS 1978-2005/Jan W03

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File 349:PCT FULLTEXT 1979-2002/UB=20050127,UT=20050120

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Set	Items	Description
S1	467309	IMAGE??
S2	62229	S1(3N)(SEGMENT? OR PARTS OR PARTITION? OR PORTION? OR PART OR SECTOR? OR SECTION? OR REGION? OR PIECE? OR FRAGMENT?)
S3	143	GRAPHIC?(3N)SYNTHETIC?
S4	732	(PICTURE? OR PHOTO OR PHOTOGRAPH??)(3N)NATURAL
S5	883759	CLASSES OR CLASSIFICAT? OR GROUP??? OR CLASSIFY? OR CLASS
S6	14169	FUZZY()LOGIC? OR NEURAL()NETWORK? OR RULE(3N)BASED
S7	777416	TEXTURE? OR COLOR? OR COLOUR? OR EDGE? OR VARIANCE OR BIAS OR SKEW? OR FITNESS OR EDGE? OR LUMINANCE
S8	2134	EDGE?(3N)HORIZONT?(3N)VERTICAL?
S9	28	SGLD OR SPATIAL()(GREY OR GRAY)()LEVEL()DEPENDENC?
S10	5240	(GREY OR GRAY)()LEVEL?
S11	135431	HISTOGRAM? OR ALGORITHM?
S12	676	AU=(PRABHAKAR, S? OR CHENG, H? OR FAN, Z? OR HANDLEY, J? OR LIN, Y? OR PRABHAKAR S? OR CHENG H? OR FAN Z? OR HANDLEY J? - OR LIN Y?)
S13	0	(IDENTIF? OR DETERMIN? OR DETECT?)(3N)S3(3N)S4
S14	25413	IC=G06K?
S15	0	S12 AND S9
S16	323	S12 AND S5
S17	63	S16(S)S1
S18	8	S16 AND S14
S19	8	S18 NOT AD=20010928:20050303/PR
S20	13	S2(S)S5(S)S7(S)S8
S21	0	S20(S)S9
S22	0	S20(S)S10
S23	6	S20(S)S11
S24	6	S23 NOT S18
S25	5	S24 NOT AD=20010928:20050303/PR
S26	2	S3(S)S4
S27	2	S26 NOT (S23 OR S18)

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File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)
(c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200508
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Set	Items	Description
S1	1229757	IMAGE??
S2	117702	S1(3N)(SEGMENT? OR PARTS OR PARTITION? OR PORTION? OR PART OR SECTOR? OR SECTION? OR REGION? OR PIECE? OR FRAGMENT?)
S3	664	GRAPHIC? AND SYNTHETIC?
S4	5973	(PICTURE? OR PHOTO OR PHOTOGRAPH??) AND NATURAL
S5	1015178	CLASSES OR CLASSIFICAT? OR GROUP??? OR CLASSIFY? OR CLASS
S6	13691	FUZZY()LOGIC? OR NEURAL()NETWORK? OR RULE(3N)BASED
S7	1847787	TEXTURE? OR COLOR? OR COLOUR? OR EDGE? OR VARIANCE OR BIAS OR SKEW? OR FITNESS OR EDGE? OR LUMINANCE
S8	31692	EDGE? AND HORIZONT? AND VERTICAL?
S9	4	SGLD OR SPATIAL() (GREY OR GRAY) () LEVEL() DEPENDENC?
S10	2595	(GREY OR GRAY) () LEVEL?
S11	41980	HISTOGRAM? OR ALGORITHM?
S12	4011	AU=(PRABHAKAR, S? OR CHENG, H? OR FAN, Z? OR HANDLEY, J? - OR LIN, Y? OR PRABHAKAR S? OR CHENG H? OR FAN Z? OR HANDLEY - J? OR LIN Y?)
S13	2	(IDENTIF? OR DETERMIN? OR DETECT?) AND S3 AND S4
S14	4	S9 NOT S13
S15	2	S12 AND S3 AND S4
S16	0	S15 NOT (S9 OR S13)
S17	1590	S2 AND S5 AND S7
S18	2	S17 AND S8 AND S10
S19	2	S18 NOT (S9 OR S13)
S20	2	S19 NOT S15
S21	4	S17 AND SYNTHETIC? AND NATURAL
S22	3	S21 NOT (S19 OR S15 OR S9 OR S13)
S23	3	S2 AND S3 AND S4
S24	2	S23 NOT (S9 OR S13 OR S15 OR S19 OR S21)



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1 Learning to detect natural image boundaries using local brightness, color, and texture cues

Martin, D.R.; Fowlkes, C.C.; Malik, J.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on, Volume: 26, Issue: 5, May 2004
Pages:530 - 549

[\[Abstract\]](#) [\[PDF Full-Text \(5245 KB\)\]](#) **IEEE JNL**

2 Forward-and-backward diffusion processes for adaptive image enhancement and denoising

Gilboa, G.; Sochen, N.; Zeevi, Y.Y.;
Image Processing, IEEE Transactions on, Volume: 11, Issue: 7, July 2002
Pages:689 - 703

[\[Abstract\]](#) [\[PDF Full-Text \(461 KB\)\]](#) **IEEE JNL**

3 Automatic model-based semantic object extraction algorithm

Jianping Fan; Xingquan Zhu; Lide Wu;
Circuits and Systems for Video Technology, IEEE Transactions on, Volume: 11, Issue: 10, Oct. 2001
Pages:1073 - 1084

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) **IEEE JNL**

4 Matching and retrieval based on the vocabulary and grammar of col patterns

Mojsilovic, A.; Kovacevic, J.; Jianying Hu; Safranek, R.J.; Ganapathy, S.K.;
Image Processing, IEEE Transactions on, Volume: 9, Issue: 1, Jan. 2000
Pages:38 - 54

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5 EdgeFlow: a technique for boundary detection and image segmentation

Wei-Ying Ma; Manjunath, B.S.;

Image Processing, IEEE Transactions on , Volume: 9 , Issue: 8 , Aug. 2000

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6 Region competition: unifying snakes, region growing, and Bayes/MI for multiband image segmentation

Song Chun Zhu; Yuille, A.;

Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume:

18 , Issue: 9 , Sept. 1996

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7 Segmenting images using normalized color

Healey, G.;

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8 Integration of vision modules and labeling of surface discontinuities

Gamble, E.B.; Geiger, D.; Poggio, T.; Weinshall, D.;

Systems, Man and Cybernetics, IEEE Transactions on , Volume: 19 , Issue:

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9 Graph-theoretical approach to colour picture segmentation and content classification

Vlachos, T.; Constantinides, A.G.;

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Pages:36 - 45

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10 Recursive neural networks for object detection

Bianchini, M.; Maggini, M.; Sarti, L.; Scarselli, F.;

Neural Networks, 2004. Proceedings. 2004 IEEE International Joint Conference on , Volume: 3 , 25-29 July 2004

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11 Estimating the photorealism of images: distinguishing paintings from photographs

photographs

Cutzu, F.; Hammoud, R.; Leykin, A.;

Computer Vision and Pattern Recognition, 2003. Proceedings. 2003 IEEE Com Society Conference on , Volume: 2 , 18-20 June 2003

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[\[Abstract\]](#) [\[PDF Full-Text \(1803 KB\)\]](#) [IEEE CNF](#)

12 Learning affinity functions for image segmentation: combining path-based and gradient-based approaches

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13 Color and texture priors in active contours for model-based image segmentation

Zhou, Q.; Ma, L.; Chelberg, D.; Celenk, M.;

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14 A robust text detection algorithm in images and video frames

Qixiang Ye; Wen Gao; Weiqiang Wang; Wei Zeng;

Information, Communications and Signal Processing, 2003 and the Fourth Pacific Rim Conference on Multimedia. Proceedings of the 2003 Joint Conference of the Fourth International Conference on , Volume: 2 , 15-18 Dec. 2003

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15 Bayesian supervised segmentation of objects in natural images using low-level information

Boldys, J.;

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7	BRS	L7	3	6 same ((edge or contour) same (color or colour) same texture)	DERWENT
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9	BRS	L9	19	8 same ((edge or contour) same (color or colour) same texture)	US- PGPUB
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11	BRS	L11	1	10 same ((edge or contour) same (color or colour) same texture)	JPO

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